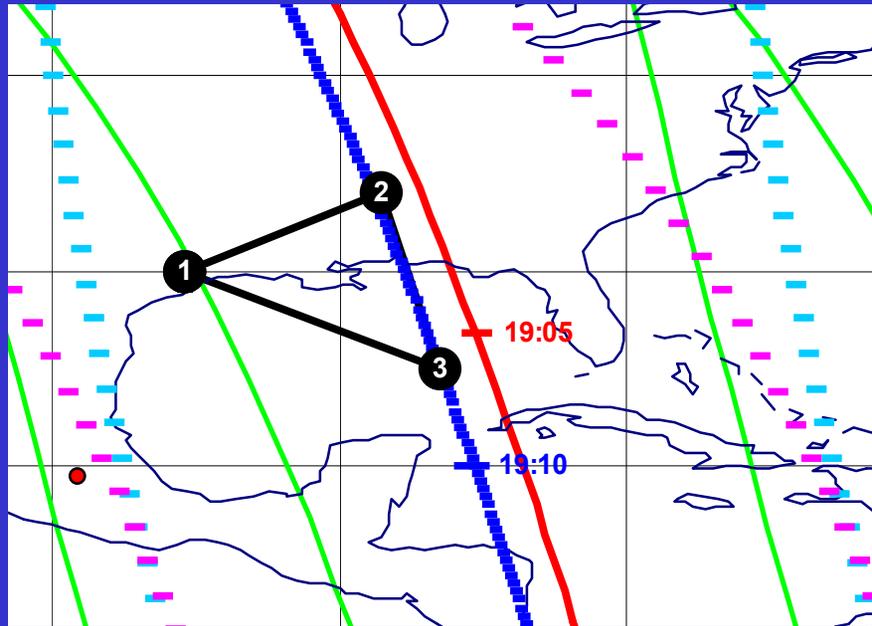


Plan for INTEX-B flight#3 – Houston local 1 on Saturday 3/4 updated 3/3 @18Z

Objectives:

1. TES and OMI validation
2. Southeast U.S. outflow to Gulf of Mexico

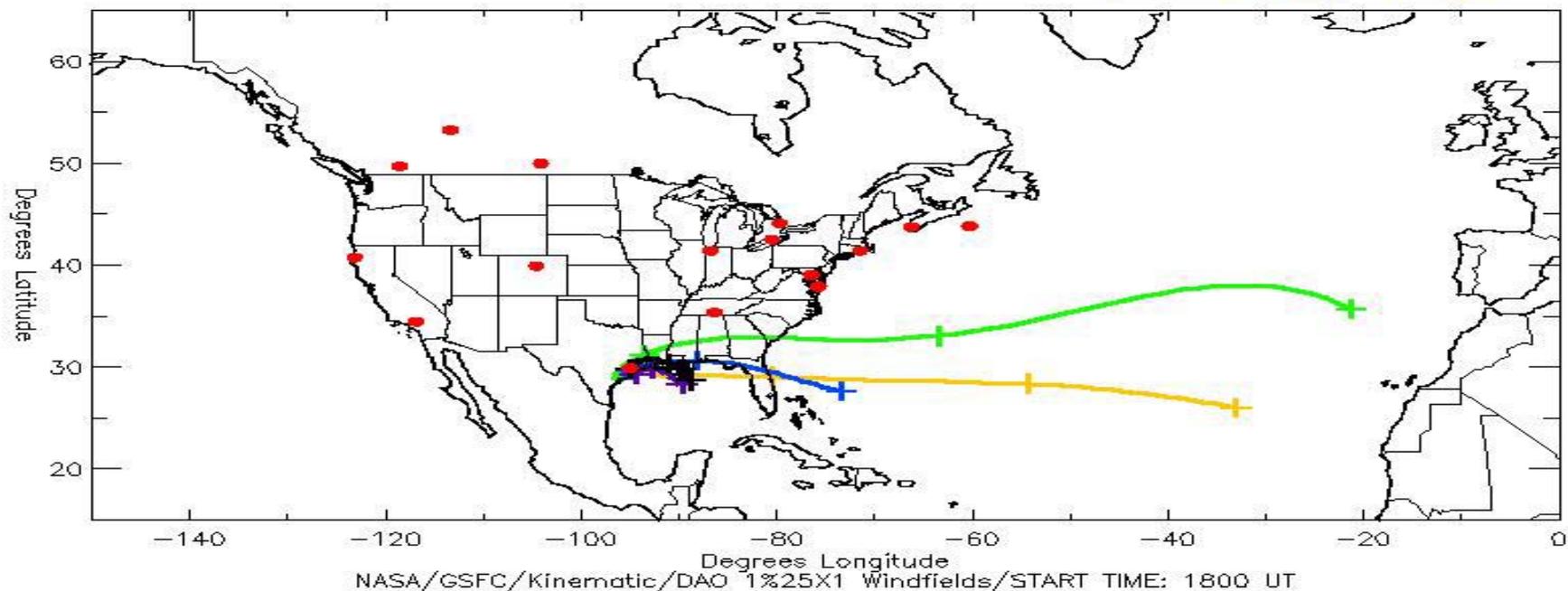


1. In-progress ascent to 37K (or higher) at point 2
2. Down spiral to 1K at point 2 (TES validation);
3. Low-altitude 1-10K porpoise legs between points 2 and 3 (OMI + TES validation – SE US outflow)
4. Up spiral from 1 to 39 K at point 3 (TES validation)

FORWARD TRAJECTORIES FROM HOUSTON IONS SITE

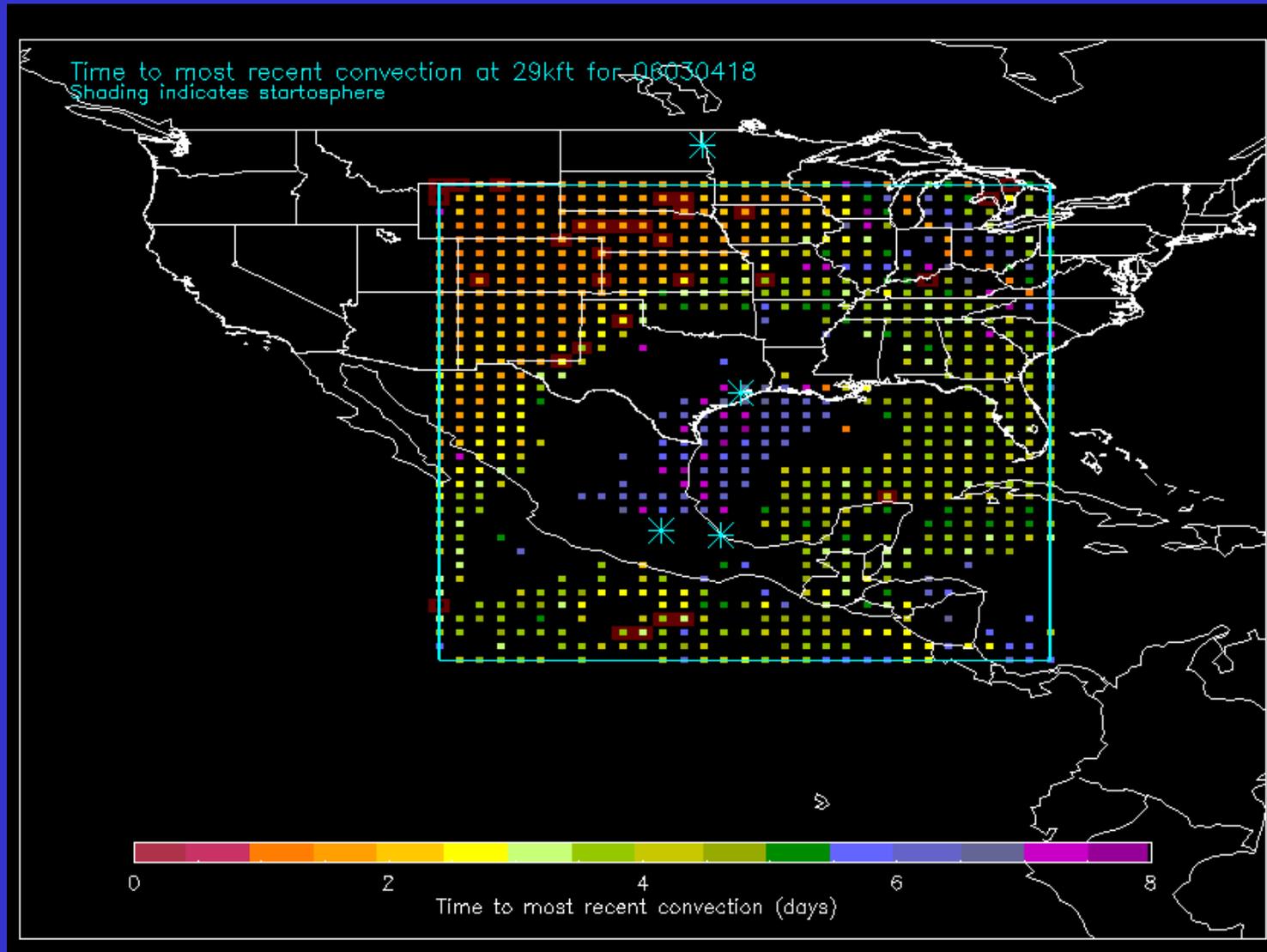
INTEX-IONSD6 Site: Houston, TX (30N, 95W)
3-Day Forward Trajectory Forecast
Start Date: 1 March, 2006, 1800 UT

	Initial Press,	End Press
Black line	850mb,	841.146
Purple line	650mb,	609.299
Blue line	500mb,	527.317
Green line	300mb,	275.127
Yellow line	150mb,	164.067



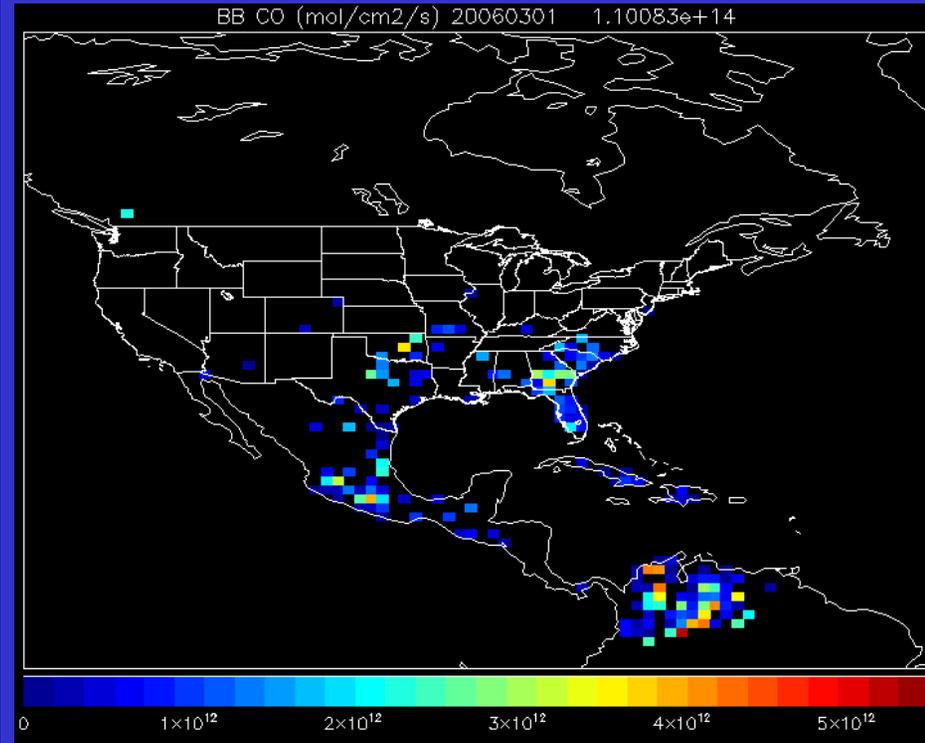
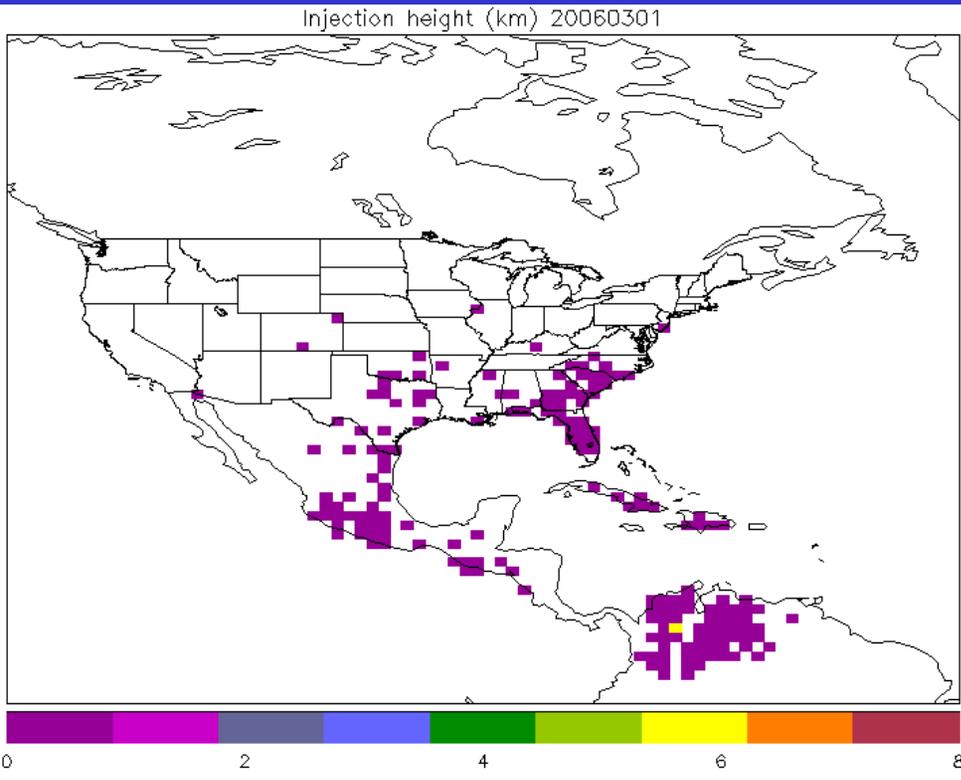
Low-level outflow to Gulf

CONVECTIVE INFLUENCE AT 29K ON 3/4



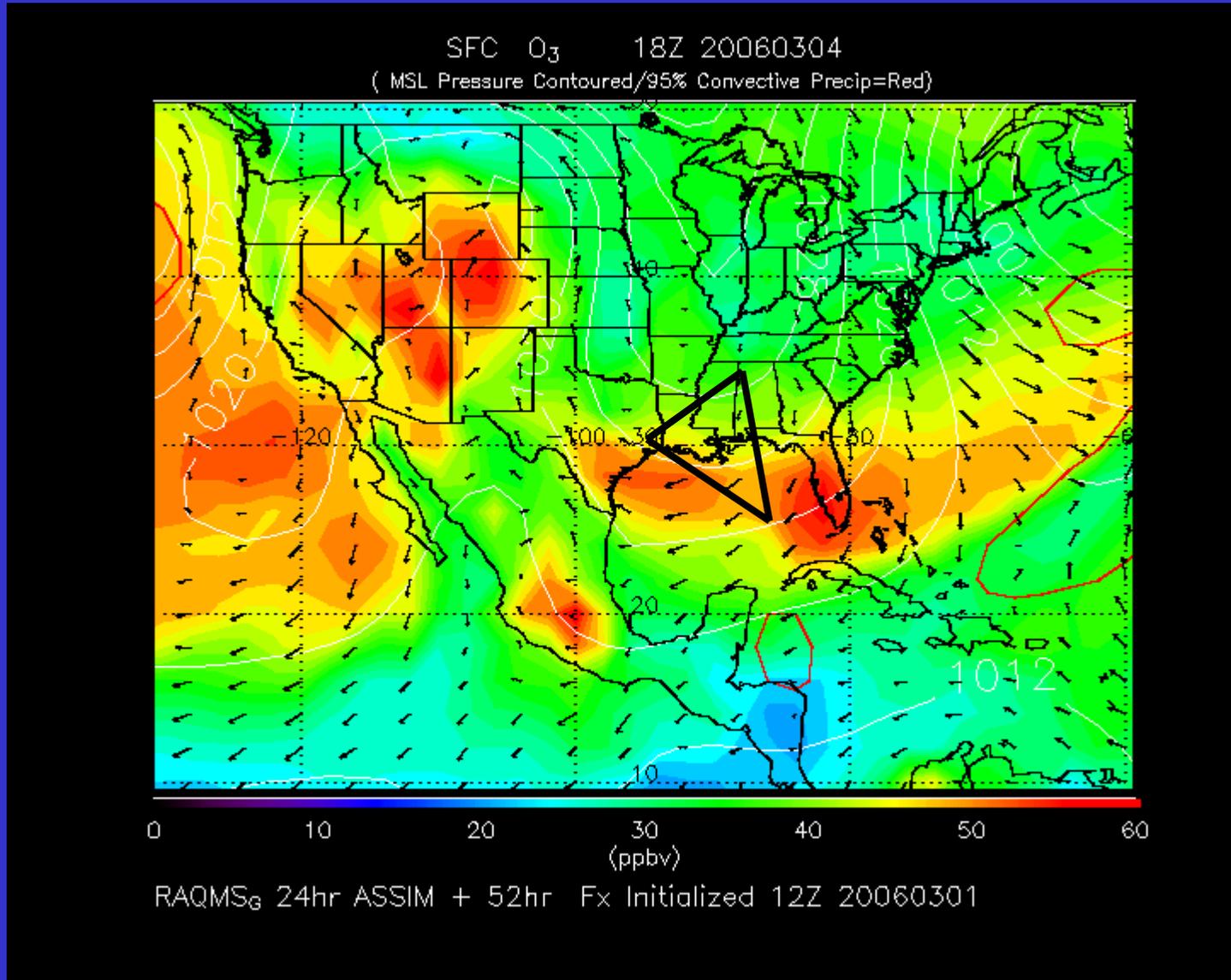
4-5 day influence at point 2 from convection over tropical Pacific; not found at 37K altitude

RAQMS NRT Wild Fire emissions for Today's Run: 12Z 03/01- 12Z 03/02



Weak fire influence in SE U.S. and Mexican Pacific coast

Today's SFC O₃ 52hr Fx Valid 18Z 03/04 (Saturday)



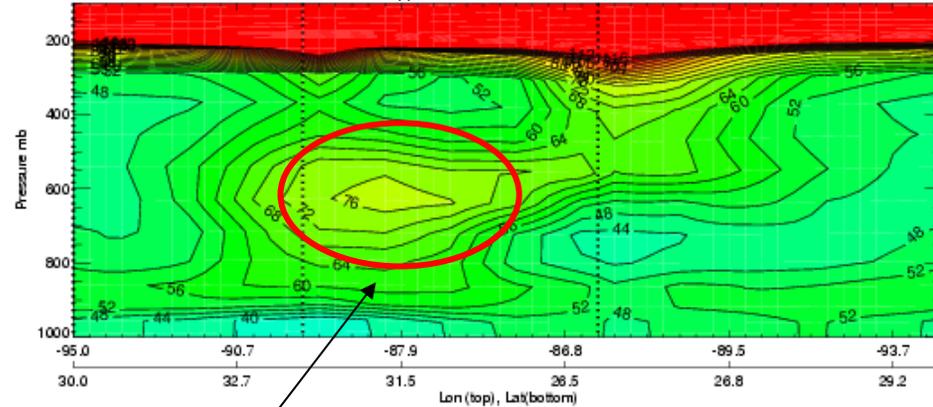
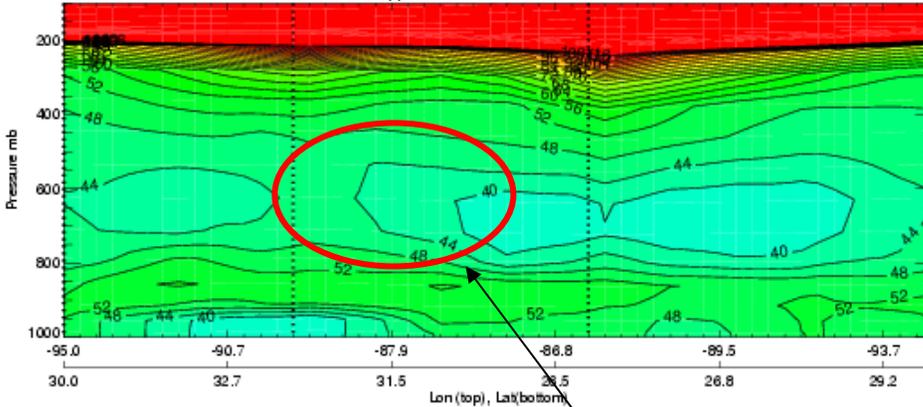
SE US outflow over Gulf; pushed a little more southward than previous forecast

78hr Flight Curtain

52hr Flight Curtain

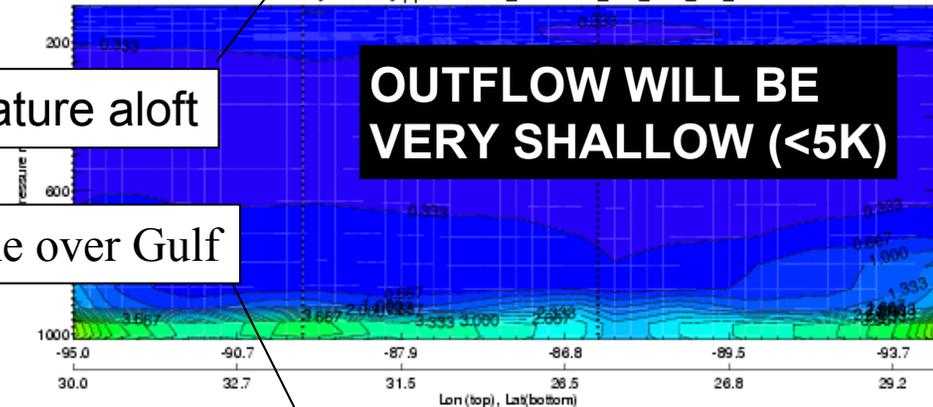
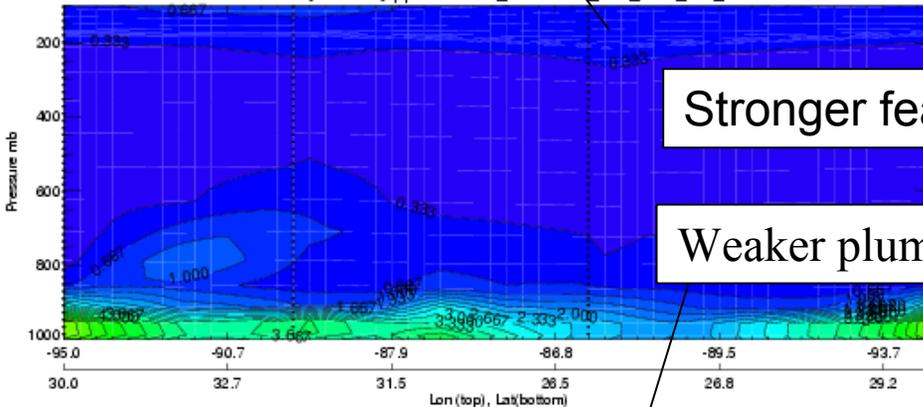
RAQMS/UW-Hybrid O3 ppb RACMS_20060304_18Z_78hr_fcst_curtain.dat

RAQMS/UW-Hybrid O3 ppb RACMS_20060304_18Z_52hr_fcst_curtain.dat



RAQMS/UW-Hybrid NOy ppb RACMS_20060304_18Z_78hr_fcst_curtain.dat

RAQMS/UW-Hybrid NOy ppb RACMS_20060304_18Z_52hr_fcst_curtain.dat



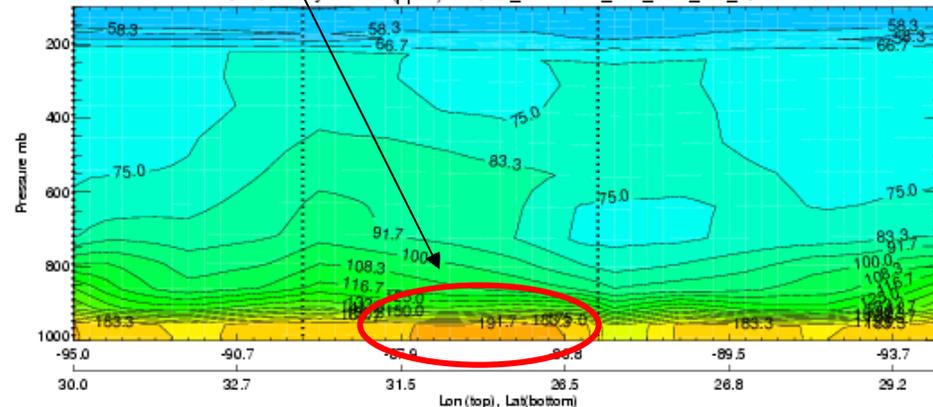
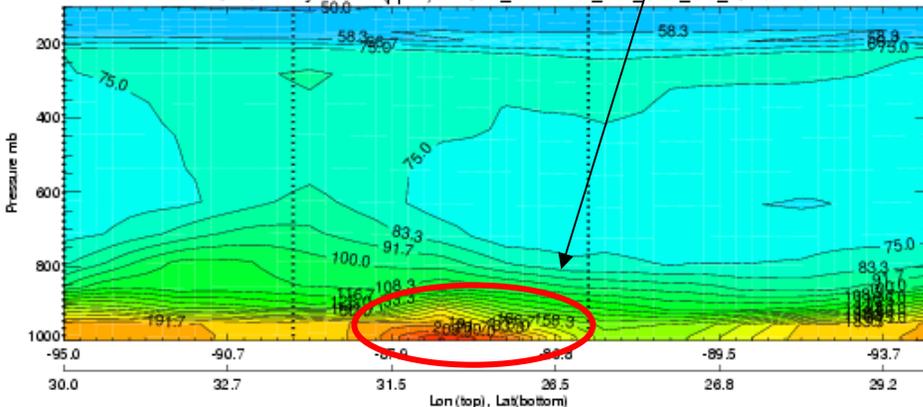
Stronger feature aloft

OUTFLOW WILL BE VERY SHALLOW (<5K)

Weaker plume over Gulf

RAQMS/UW-Hybrid CO (ppbv) RACMS_20060304_18Z_78hr_fcst_curtain.dat

RAQMS/UW-Hybrid CO (ppbv) RACMS_20060304_18Z_52hr_fcst_curtain.dat



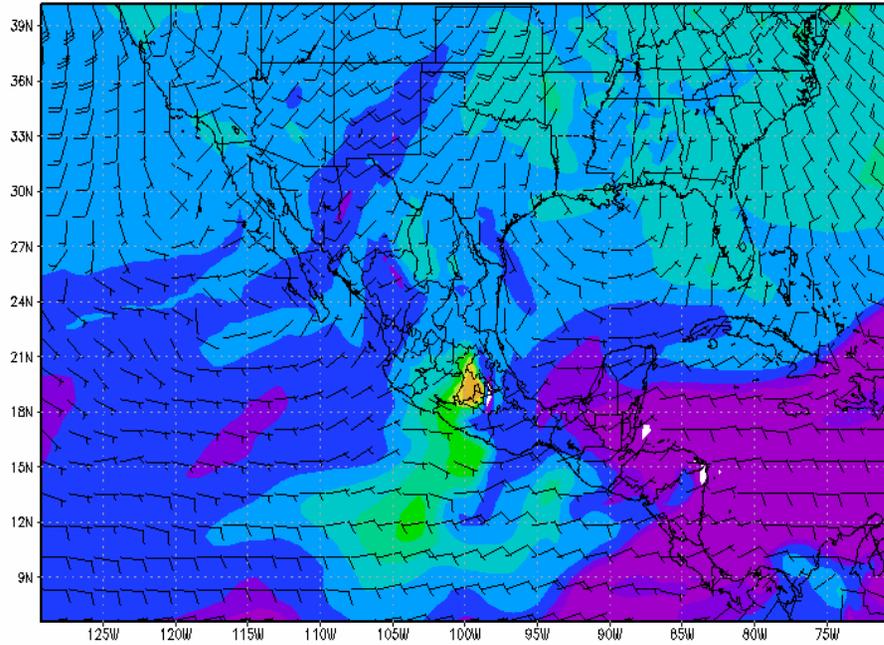
Little Change in Forecast for Saturday March 4

Yesterday's Forecast

(3/1 for 3/4)

Simulated CO (ppbv) in the 1km layer
at 18GMT, 03/4/2006

CGRER, University of Iowa

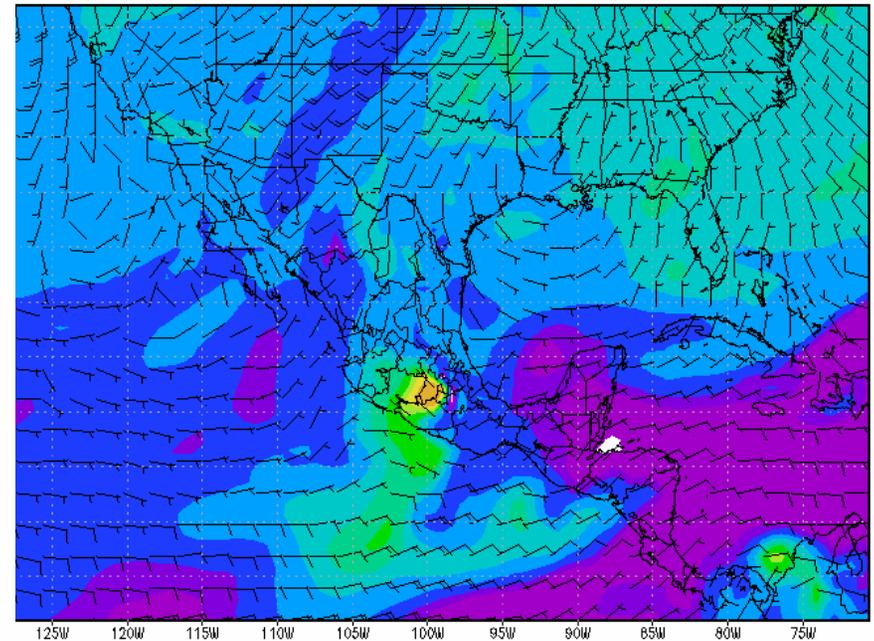


Today's Forecast

(3/2 for 3/4)

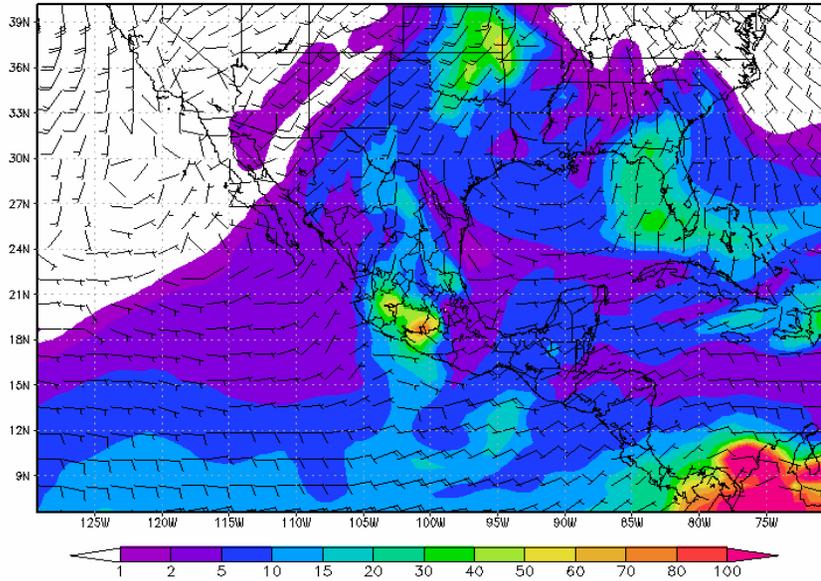
Simulated CO (ppbv) in the 1km layer
at 18GMT, 03/4/2006

varsiy of Iowa



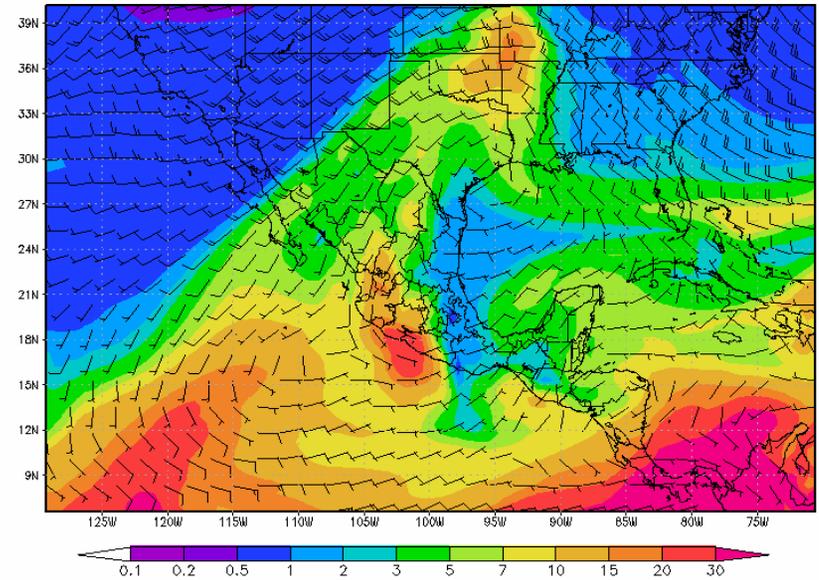
Simulated Biomass_Burning_CO (ppbv) in the 1km layer
at 18GMT, 03/4/2006

CGRER, University of Iowa



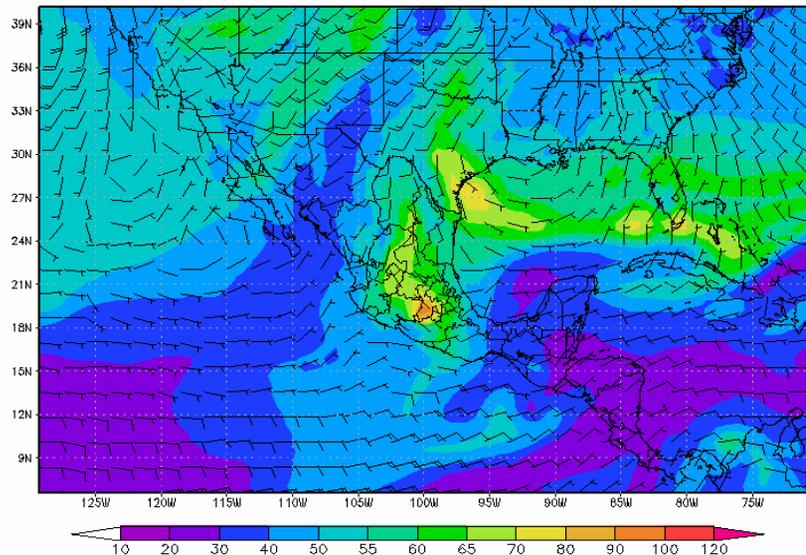
Simulated Biomass_Burning_CO (ppbv) in the 3km layer
at 15GMT, 03/4/2006

CGRER, University of Iowa



Simulated O₃ (ppbv) in the 1km layer
at 18GMT, 03/4/2006

CGRER, University of Iowa



**Forecasted Regions
with Possible
Biomass Burning
Influence....**